

Protect your code with GitHub security features

NDC { Security }



<https://myoctocat.com>

Protect your code with GitHub security features

NDC { Security }

Rob Bos

DevOps Consultant – Xpirit

The Netherlands

<https://devopsjournal.io>

@robbos81



<https://myoctocat.com>



Security features

Commit signing

Dependabot

Security alerts on dependencies

Secret scanning

CodeQL

Why? Attack vectors!

your code

```
26 // if npm is called as "nmg" or "npm_g", then
27 // run in global mode.
28 if (process.argv[1][process.argv[1].length - 1] === 'g') {
29   process.argv.splice(1, 1, 'npm', '-g')
30 }
31
32 const log = require('./utils/log-shim.js')
33 const replaceInfo = require('./utils/replace-info.js')
34 log.verbose('cli', replaceInfo(process.argv))
35
36 log.info('using', 'npm@%s', npm.version)
37 log.info('using', 'node@%s', process.version)
38
39 const updateNotifier = require('./utils/update-notifier.js')
40
```

your pipelines



Who can push code?

The screenshot shows the GitHub interface for the repository 'rajbos / github-actions-requests'. The 'Settings' tab is selected and highlighted with an orange box. In the left sidebar, the 'Access' menu item is also highlighted with an orange box. The main content area is titled 'Who has access' and contains two panels: 'PUBLIC REPOSITORY' and 'DIRECT ACCESS'. The 'DIRECT ACCESS' panel shows '1 has access to this repository. 1 collaborator.' with a blue arrow pointing to the 'Manage access' section below. The 'Manage access' section includes a search bar 'Find a collaborator...' and a list of collaborators, with one entry for 'Hindrik Bruinsma | DevOps Consultant' (cloudcosmonaut) who is a Collaborator. A green 'Add people' button is visible in the top right of the 'Manage access' section. A large orange arrow points from the 'DIRECT ACCESS' panel to the search bar, and another orange arrow points from the search bar to the collaborator entry.

Who can push code?

Direct: users with write access

- https
- ssh

Deploy keys

Machine users

GitHub Apps

GITHUB_TOKEN

Indirect (public repo):

– anyone can send in a Pull Request

How do you push code?

```
$ git config --global user.name "Some name"
```

```
$ git config --global user.email some-name@example.com
```



GitHub uses **this** info to match the user!

Not the authentication method!

Search or jump to... Pulls Issues Marketplace Explore

npm / cli Public Watch 178 Fork 1.5k Star 5.6k

Code Issues 462 Pull requests 27 Actions Wiki Security 4

latest

Commits on Mar 2, 2022

fix: ignore implicit workspace for whoami (#4493) nlf committed 3 days ago ✓	9e43de8	<>
fix: set proper workspace repo urls in package.json (#4476) ljharb committed 3 days ago ✓	0cfc155	<>
chore: @npmcli/template-oss@2.9.2 (#4491) ... wraithgar committed 3 days ago ✓	2b8f51e	<>
deps: lru-cache@7.4.0 wraithgar committed 3 days ago ✗	10e1326	<>
minimatch@3.1.2 wraithgar committed 3 days ago	236e3b4	<>
deps: socks@2.6.2 wraithgar committed 3 days ago	1dd2f7e	<>

What's so bad?

- I can automate your commits!
- Default setup (Linux/Windows/https/ssh):


```
git add .  
git commit -m 'doing the commit for you'  
git push
```

Commit signing

GPG keys

New GPG key

This is a list of GPG keys associated with your account. Remove any keys that you do not recognize.



Email addresses: `raj.bos+gpg@gmail.com` `raj.bos@gmail.com`

Key ID: 9329ACE0943AF0DE

Subkeys: 05B8A873485710EA

Added on Feb 27, 2021

Delete

Always configure commit signing

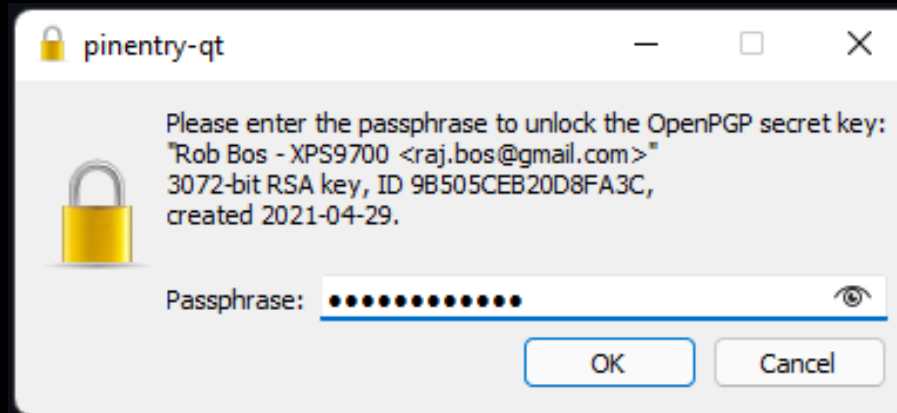
```
git commit -S -m "your commit message"
```

```
git config commit.gpgsign true
```

Demo / example

Demo – Commit signing

```
git commit -m 'my commit'
```



Commit signing

The screenshot shows the GitHub interface for the `npm/cli` repository. The commit history for March 2, 2022, is displayed. The first three commits are highlighted with a red box, and an orange arrow points to the second commit.

Commit Message	Author	Time	SHA-1
fix: ignore implicit workspace for whoami (#4493)	nlf	committed 3 days ago ✓	9e43de8
fix: set proper workspace repo urls in package.json (#4476)	ljharb	committed 3 days ago ✓	0cfc155
chore: @npmcli/template-oss@2.9.2 (#4491) ...	wraithgar	committed 3 days ago ✓	2b8f51e
deps: lru-cache@7.4.0	wraithgar	committed 3 days ago ✗	10e1326
minimatch@3.1.2	wraithgar	committed 3 days ago	236e3b4
deps: socks@2.6.2	wraithgar	committed 3 days ago	1dd2f7e

Commit signing

The screenshot shows a GitHub pull request interface. At the top, there's a search bar and navigation links for Pull requests, Issues, Marketplace, and Explore. Below that, the repository is identified as 'npm / cli' with a 'Public' label. Metrics for Watch (178) and Fork (1.5k) are shown. A secondary navigation bar includes Code, Issues (462), Pull requests (27), Actions, Wiki, Security (4), and Insights.

The main title of the pull request is 'docs: standardize changelog heading #4510'. A green 'Open' button is next to it. Below the title, it says 'wraithgar wants to merge 1 commit into release-next from gar/changelogs'. A secondary navigation bar shows Conversation (1), Commits (1), Checks (192), and Files changed (9).

The pull request activity is shown in a vertical timeline. The most recent activity is a comment from 'wraithgar' from yesterday, stating 'This will allow for release-please to update them appropriately'. This comment is associated with the commit 'docs: standardize changelog heading' (commit hash 48f7612). A green 'Verified' badge is placed over the commit hash, and this entire area is highlighted with an orange box. To the right of the comment, the 'Reviewers' section shows 'nlf' as a reviewer. Below that, the 'Assignees' section shows 'No one assigned'. Other sections like 'Labels', 'Projects', and 'Milestone' are also visible but show 'None yet'.

Below the comment, there's a checkmark icon and the text 'nlf approved these changes yesterday'. At the bottom of the timeline, there's a comment from 'npm-robot' from yesterday, stating 'no statistically significant performance changes detected' and 'timing results'.

Vigilant mode

GPG keys

New GPG key

This is a list of GPG keys associated with your account. Remove any keys that you do not recognize.



Email addresses: raj.bos+gpg@gmail.com raj.bos@gmail.com

Key ID: 9329ACE0943AF0DE



Subkeys: 05B8A873485710EA

Added on Feb 27, 2021

Delete



Email address: raj.bos@gmail.com

Key ID: 9B505CEB20D8FA3C



Subkeys: 577ECBC1D3DADEAF

Added on Apr 29, 2021

Delete

[Learn how to generate a GPG key and add it to your account .](#)

Vigilant mode

Flag unsigned commits as unverified

This will include any commit attributed to your account but not signed with your GPG or S/MIME key.
Note that this will include your existing unsigned commits.

[Learn about vigilant mode.](#)

beta

Vigilant mode

<> Code Issues Pull requests 8 Actions Projects Wiki Security 1

main

Commits on Apr 27, 2021

Signed and signature verified

 hubwriter committed 3 hours ago ✓

Signature verified but has co-author with vigilant mode enabled

 John Doe authored and hubwriter committed 4 hours ago ✓

Not signed but committer has vigilant mode enabled

 octocat committed 6 hours ago ✓

Verified



2ce6deb

<>

Partially verified



f514ac0

<>

Unverified



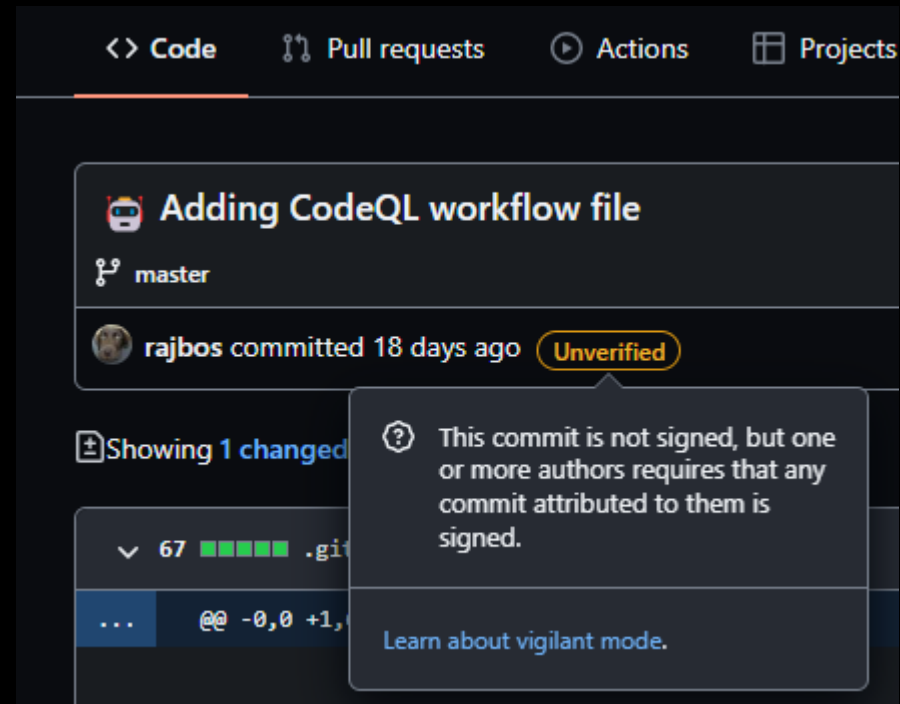
c83b4fd

<>

Vigilant mode

Status	Commit signed?	Signature verified?	Commit matches author?
Verified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Partially verified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X
Unverified	<input checked="" type="checkbox"/>	X	
	X		

Vigilant mode



Next step:

The screenshot shows the GitHub interface for configuring a branch protection rule. The left sidebar contains a navigation menu with categories: General, Access, Code and automation, Security, and Integrations. The 'Branches' option under 'Code and automation' is highlighted with an orange box. An orange arrow points from this box to the 'Require signed commits' checkbox in the main configuration area, which is checked. The main configuration area is titled 'Branch protection rule' and includes the following settings:

- Branch name pattern ***: main
- Protect matching branches**
 - Require a pull request before merging**
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.
 - Require status checks to pass before merging**
Choose which [status checks](#) must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.
 - Require conversation resolution before merging**
When enabled, all conversations on code must be resolved before a pull request can be merged into a branch that matches this rule. [Learn more.](#)
 - Require signed commits**
Commits pushed to matching branches must have verified signatures.
 - Require linear history**
Prevent merge commits from being pushed to matching branches.

Require signed commits – impact

Users' setup – needs to install tools

Automation:

- Dependabot – will sign automatically
- GitHub Apps
- Personal Access Tokens

Codespaces



GPG verification

Codespaces created from the following repositories can have GPG capabilities and sign commits that they come from a trusted source. Only enable this for repositories that you trust.

- Disabled
GPG will not be available in Codespaces
- All repositories
GPG will be available for Codespaces for all repositories
- Selected repositories
GPG will be available for Codespaces from the selected repositories

Security features

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Secret scanning

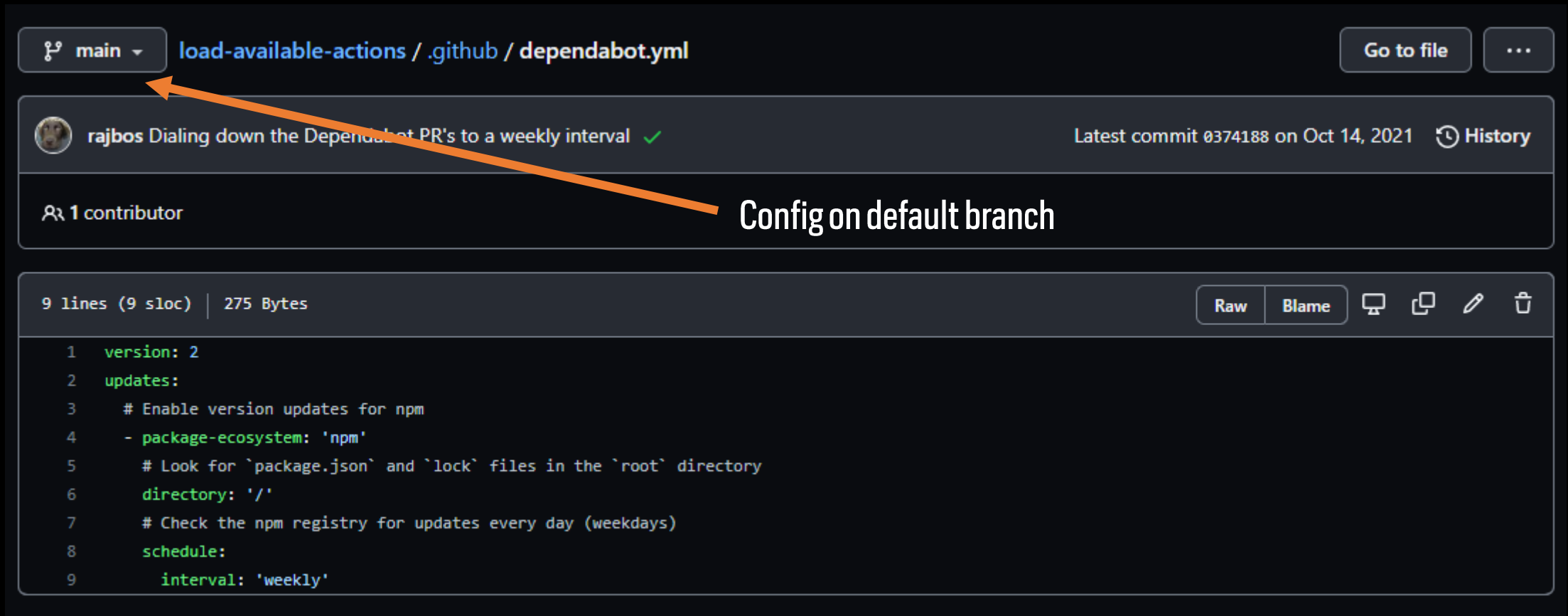
CodeQL

Stay up to date

- Dependabot + updates
 - Why
 - What to do
 - How
- Free for public repos



Dependabot config



main load-available-actions / .github / dependabot.yml Go to file ...

rajbos Dialing down the Dependabot PR's to a weekly interval ✓ Latest commit 0374188 on Oct 14, 2021 History

1 contributor **Config on default branch**

9 lines (9 sloc) | 275 Bytes Raw Blame 🗨 📄 ✎ 🗑

```
1 version: 2
2 updates:
3   # Enable version updates for npm
4   - package-ecosystem: 'npm'
5     # Look for `package.json` and `lock` files in the `root` directory
6     directory: '/'
7     # Check the npm registry for updates every day (weekdays)
8     schedule:
9       interval: 'weekly'
```

Dependabot demo

<https://github.com/devops-actions/load-available-actions/pull/151>

Bump Selenium.WebDriver.ChromeDriver from 97.0.4692.7100 to 98.0.4758.10200 #45

Open

dependabot wants to merge 1 commit into `main` from `dependabot/nuget/Selenium.WebDriver.ChromeDriver-98.0.4758.10200`

Conversation 0

Commits 1

Checks 7

Files changed 1



dependabot bot commented 17 days ago

Contributor



Bumps `Selenium.WebDriver.ChromeDriver` from 97.0.4692.7100 to 98.0.4758.10200.

▶ Changelog



▶ Commits



compatibility unknown



Dependabot will resolve any conflicts with this PR as long as you don't alter it yourself. You can also trigger a rebase manually by commenting `@dependabot rebase`.

▶ Dependabot commands and options

Reviewers

No reviews

Still in progress? Convert

Assignees

No one—assign yourself

Labels

dependencies

.NET

Projects

None yet



dependabot bot commented 17 days ago

Contributor



Bumps Selenium.WebDriver.ChromeDriver from 97.0.4692.7100 to 98.0.4758.10200.

▼ Changelog

Sourced from Selenium.WebDriver.ChromeDriver's changelog.

98.0.4758.10200

- Chrome Driver 98.0.4758.102 release 98.0.4758.8000
- Chrome Driver 98.0.4758.80 release 98.0.4758.4800
- Chrome Driver 98.0.4758.48 release

▼ Commits

- [0733b78](#) Upgrade to 98.0.4758.102
- [3d7b7cc](#) Upgrade to 98.0.4758.80
- [dabd9e2](#) refine unit tests
- [ea396b9](#) modernize unit tests
- [9d4bdcf](#) v.98.0.4758.4800 release
- [d68a57d](#) Merge branch 'v98'
- [dd8278c](#) Upgrade to 98.0.4758.48
- See full diff in [compare view](#)

compatibility unknown

Dependabot will resolve any conflicts with this PR as long as you don't alter it yourself. You can also trigger a rebase manually by commenting `@dependabot rebase`.

▶ Dependabot commands and options

▼ Dependabot commands and options

You can trigger Dependabot actions by commenting on this PR:

- `@dependabot rebase` will rebase this PR
- `@dependabot recreate` will recreate this PR, overwriting any edits that have been made to it
- `@dependabot merge` will merge this PR after your CI passes on it
- `@dependabot squash and merge` will squash and merge this PR after your CI passes on it
- `@dependabot cancel merge` will cancel a previously requested merge and block automerging
- `@dependabot reopen` will reopen this PR if it is closed
- `@dependabot close` will close this PR and stop Dependabot recreating it. You can achieve the same result by closing it manually
- `@dependabot ignore this major version` will close this PR and stop Dependabot creating any more for this major version (unless you reopen the PR or upgrade to it yourself)
- `@dependabot ignore this minor version` will close this PR and stop Dependabot creating any more for this minor version (unless you reopen the PR or upgrade to it yourself)
- `@dependabot ignore this dependency` will close this PR and stop Dependabot creating any more for this dependency (unless you reopen the PR or upgrade to it yourself)

```
# Use `ignore` to specify dependencies that should not be updated
```

```
version: 2
```

```
updates:
```

```
- package-ecosystem: "npm"
```

```
  directory: "/"
```

```
  schedule:
```

```
    interval: "daily"
```

```
  ignore:
```

```
- dependency-name: "express"
```

```
  # For Express, ignore all updates for version 4 and 5
```

```
  versions: ["4.x", "5.x"]
```

```
# Use `ignore` to specify dependencies that should not be updated
```

```
version: 2
```

```
updates:
```

```
- package-ecosystem: "npm"
```

```
  directory: "/"
```

```
  schedule:
```

```
    interval: "daily"
```

```
  ignore:
```

```
    # For Lodash, ignore all updates
```

```
    - dependency-name: "lodash"
```

```
# Use `ignore` to specify dependencies that should not be updated
```

```
version: 2
```

```
updates:
```

- package-ecosystem: "npm"
 directory: "/"
 schedule:
 interval: "daily"
 ignore:

```
# For AWS SDK, ignore all patch updates  
- dependency-name: "aws-sdk"  
  update-types: ["version-update:semver-patch"]
```


Security features

Commit signing

Dependabot

Security alerts on dependencies

Secret scanning

CodeQL

Security alerts on dependencies

Security updates from Dependabot

Free for public repos

Dependabot knows your dependency graph

Dependency has vulnerability? Alert!

Alerts on dependencies

rob-demo / security-demo Private

Watch 0 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

Collaborators and teams

Team and member roles

Code and automation

Branches

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets

Integrations

GitHub apps

Code security and analysis

Security and analysis features help keep your repository secure and updated. By enabling these features, you're granting us permission to perform read-only analysis on your repository.

Dependency graph Understand your dependencies. **Enable**

Dependabot alerts Receive alerts of new vulnerabilities that affect your dependencies. **Enable**

Dependabot security updates Easily upgrade to non-vulnerable dependencies. **Enable**

GitHub Advanced Security **Enable**

GitHub Advanced Security features are billed per active committer in private repositories. [Learn more.](#)

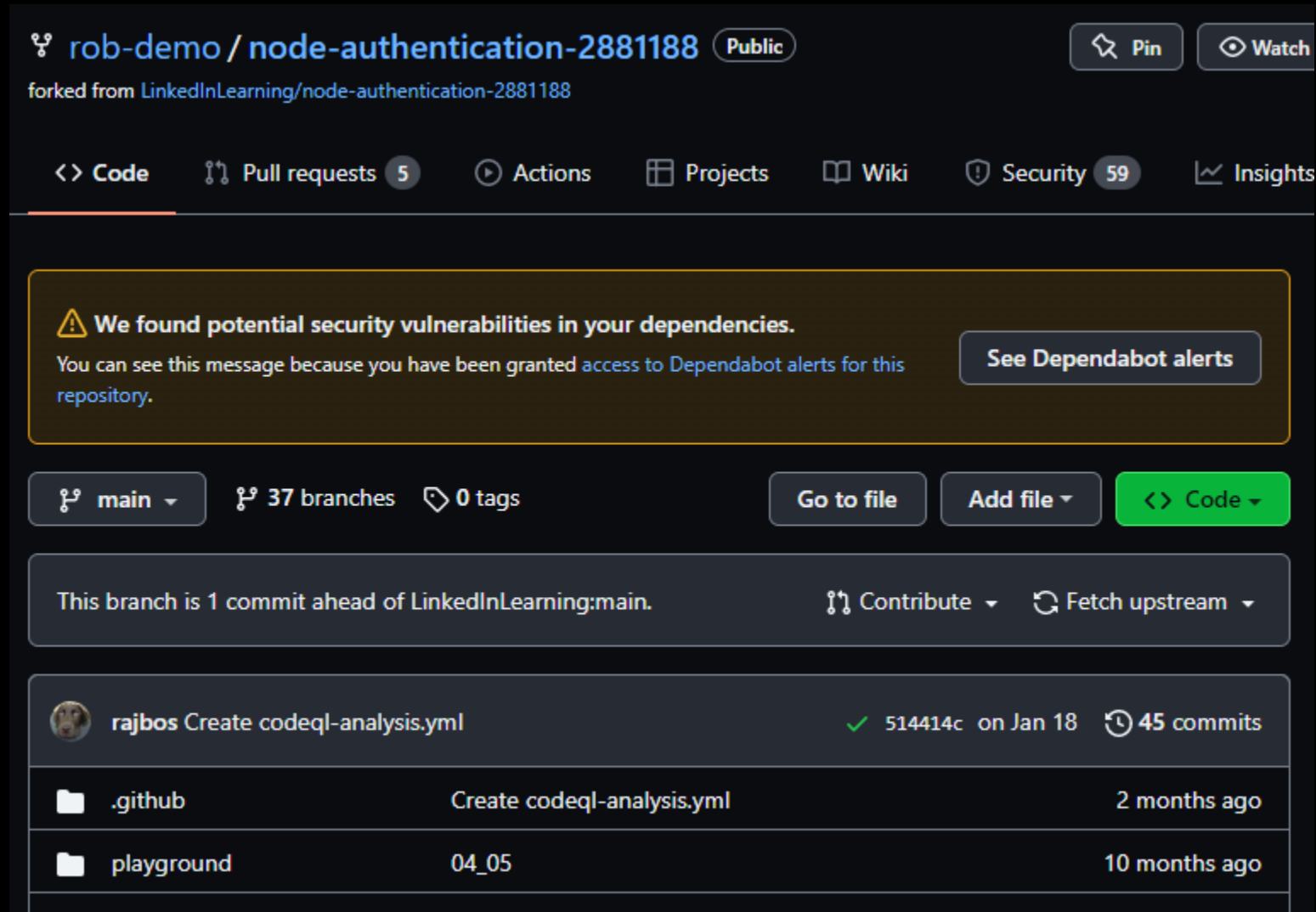
Code scanning Automatically detect common vulnerabilities and coding errors. **Set up**

Secret scanning **Enable**

Demo

<https://github.com/rob-demo/node-authentication-2881188>

DEMO: Security alerts on dependencies




The screenshot shows a GitHub repository page for `rob-demo / node-authentication-2881188`, which is public and forked from `LinkedInLearning/node-authentication-2881188`. The repository has 5 pull requests, 59 security alerts, and 37 branches. A prominent yellow warning box at the top states: "We found potential security vulnerabilities in your dependencies. You can see this message because you have been granted access to Dependabot alerts for this repository." An orange arrow points to this warning box. Below the warning, the repository navigation bar shows the current branch is `main`, and it is 1 commit ahead of the upstream `main` branch. A commit history table is visible below, showing a commit by `rajbos` on Jan 18, and two folders: `.github` (created 2 months ago) and `playground` (created 10 months ago).

We found potential security vulnerabilities in your dependencies.
You can see this message because you have been granted access to Dependabot alerts for this repository. [See Dependabot alerts](#)

main 37 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit ahead of LinkedInLearning:main. [Contribute](#) [Fetch upstream](#)

 rajbos Create codeql-analysis.yml	✓ 514414c on Jan 18	🕒 45 commits
📁 .github	Create codeql-analysis.yml	2 months ago
📁 playground	04_05	10 months ago

DEMO: Security alerts on dependencies

rob-demo / node-authentication-2881188 Public Pin Watch 0 Fork 16 Star 0

forked from LinkedInLearning/node-authentication-2881188

[Code](#) [Pull requests 5](#) [Actions](#) [Projects](#) [Wiki](#) [Security 59](#) [Insights](#) [Settings](#)

Overview

Security policy

Security advisories

Dependabot alerts 49




Code scanning alerts 10

Secret scanning alerts

Dependabot alerts Dismiss all

is:open

49 Open ✓ 1 Closed Severity Package Ecosystem Manifest Sort

 Authorization Bypass Through User-Controlled Key in url-parse Moderate #6
url-parse (npm) · todolist/package-lock.json · #51 opened yesterday
 Authorization Bypass Through User-Controlled Key in url-parse Moderate #6
url-parse (npm) · todolist/package-lock.json · #50 opened 5 days ago
 Authorization Bypass Through User-Controlled Key in url-parse Critical #6
url-parse (npm) · todolist/package-lock.json · #49 opened 5 days ago

DEMO: Security alerts on dependencies

The screenshot shows the GitHub repository settings page for 'rob-demo/security-demo'. The 'Settings' tab is selected, and the 'Code security and analysis' section is highlighted in the left sidebar. The main content area shows the following settings:

- Code security and analysis**: Security and analysis features help keep your repository secure and updated. By enabling these features, you're granting us permission to perform read-only analysis on your repository.
- Dependency graph**: Understand your dependencies. **Enable**
- Dependabot alerts**: Receive alerts of new vulnerabilities that affect your dependencies. **Enable**
- Dependabot security updates**: Easily upgrade to non-vulnerable dependencies. **Enable**
- GitHub Advanced Security**: **Enable**
- Code scanning**: Automatically detect common vulnerabilities and coding errors. **Set up**
- Secret scanning**: **Enable**

DEMO: Security alerts on dependencies

Bump url-parse from 1.4.7 to 1.5.10 in /todolist #6 Edit <> Code

Open dependabot wants to merge 1 commit into `main` from `dependabot/npm_and_yarn/todolist/url-parse-1.5.10`

! This automated pull request fixes a **security vulnerability** Critical severity
Only users with access to Dependabot alerts can see this message. [Learn more about Dependabot security updates, opt out, or give us feedback.](#)

Conversation 0 Commits 1 Checks 2 Files changed 1 +6 -6

dependabot bot commented 5 days ago

Bumps `url-parse` from 1.4.7 to 1.5.10.

▶ Commits

compatibility 75%

Dependabot will resolve any conflicts with this PR as long as you don't alter it yourself. You can also trigger a rebase manually by commenting `@dependabot rebase`.

▶ Dependabot commands and options

Reviewers No reviews
Still in progress? [Convert to draft](#)

Assignees No one—assign yourself

Labels dependencies

Projects None yet


DEMO: Security alerts on dependencies

GitHub Advisory Database / GitHub Reviewed / CVE-2021-27515

Path traversal in url-parse

High severity **GitHub Reviewed** Published on May 6, 2021 • Updated on May 6, 2021

[Vulnerability details](#) [Dependabot alerts](#) **81**

Package	Affected versions	Patched versions
 url-parse (npm)	< 1.5.0	1.5.0

CVE ID
CVE-2021-27515

GHSA ID
GHSA-9m6j-fcg5-2442

CWEs
[CWE-23](#)

CVSS Score
5.3 Moderate
CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N

See something to contribute? [Suggest improvements for this vulnerability](#)

Description

url-parse before 1.5.0 mishandles certain uses of backslash such as http:/ and interprets the URI as a relative path.

References

- <https://nvd.nist.gov/vuln/detail/CVE-2021-27515>
- [unshifto/url-parse#197](#)
- [unshifto/url-parse@d1e7e88](#)
- [unshifto/url-parse@1.4.7...1.5.0](#)
- <https://advisory.checkmarx.net/advisory/CX-2021-4306>

Security features

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Secret scanning

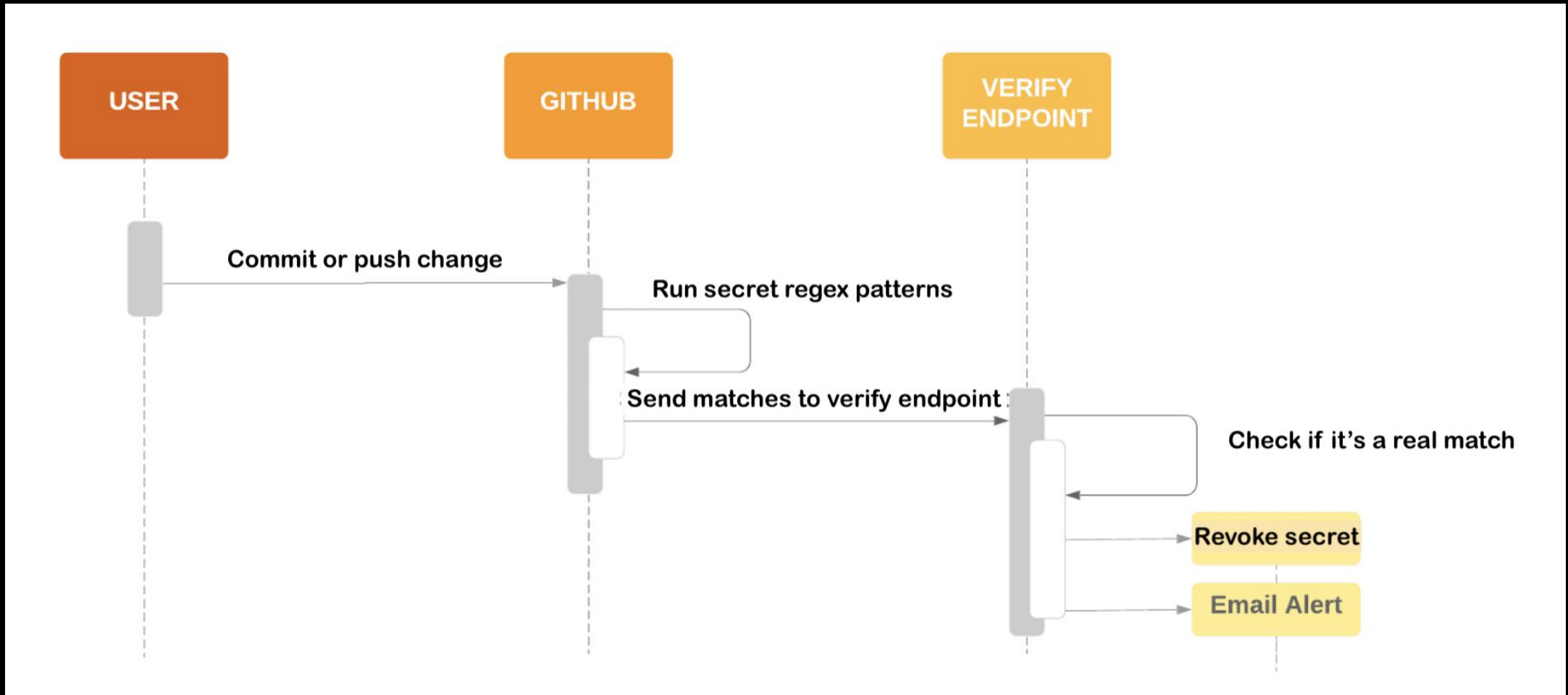
Secrets have a high risk!

Enabled by default on public repos

50+ secret scanning partners

- AWS / GCP/ Azure
- Discord
- npm
- NuGet
- Postman
- Twilio

Secret scanning



Secret scanning

Runs after a push event (scanning issues/ PR's is on the roadmap)

Scans the entire history of the repo as well

Public repo + actionable secret = high probability of revoking

Demo with an example repository:

- <https://github.com/Microsoft-Bootcamp/attendee-rajbos>

Security features

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CodeQL

CodeQL – What is it?

```
- name: Initialize CodeQL
  uses: github/codeql-action/init@v1
  with:
    languages: ${{ matrix.language }}
    config-file: ../.github/codeql/codeql-config.yml
```



Database

```
- name: Perform CodeQL Analysis
  uses: github/codeql-action/analyze@v1
```



Query

Using CodeQL

Free for public repos, uses your own Action minutes

CLI support

Open-source queries

Support for:

javascript

c++

ruby

c#

go

java

python

CodeQL – demo

a: <https://github.com/rajbos/TailwindTraders-Website>

b: <https://github.com/github/codeql>

c: <https://sarifweb.azurewebsites.net/>

CodeQL - demo

The screenshot shows a GitHub Actions workflow run for the repository `rajbos / dotnetcore-webapp`. The workflow is named `CodeQL` and is run as `CodeQL #78`. It was triggered via a schedule 2 days ago and completed successfully. The total duration of the workflow was 2m 41s. The workflow consists of two jobs: `Analyze (csharp)` and `Analyze (javascript)`, both of which completed successfully. The `Analyze (csharp)` job took 2m 27s, and the `Analyze (javascript)` job took 1m 31s. The workflow file is `codeql-analysis.yml` and is configured to run on a schedule. The workflow matrix is `Analyze`.

rajbos / dotnetcore-webapp Public

Code Issues Pull requests Actions Projects Wiki Security 6 Insights Settings

CodeQL CodeQL #78 Re-run all jobs

Summary

Jobs

- Analyze (csharp)
- Analyze (javascript)

Triggered via schedule	Status	Total duration	Artifacts
2 days ago	Success	2m 41s	-

```
codeql-analysis.yml
on: schedule

Matrix: Analyze
- Analyze (csharp) 2m 27s
- Analyze (javascript) 1m 31s
```

CodeQL - demo

rajbos / dotnetcore-webapp Public

Code Issues Pull requests Actions Projects Wiki Security 6 Insights Settings

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Code scanning

Add scanning tool

Latest scan	Branch	Workflow	Lines scanned	Duration	Result
2 days ago	main	CodeQL	143 / 269	2m 19s	0 alerts

Filters is:open branch:main

6 Open 0 Closed

Tool	Branch	Rule	Severity	Sort
<input type="checkbox"/>	main	Inefficient regular expression	High	
dotnet-core-webapp/.../dist/jquery.validate.js:1394 • Detected on Feb 4, 2021 by CodeQL				
<input type="checkbox"/>	main	Inefficient regular expression	High	
dotnet-core-webapp/.../dist/additional-methods.js:1092 • Detected on Feb 4, 2021 by CodeQL				
<input type="checkbox"/>	main	Inefficient regular expression	High	
dotnet-core-webapp/.../dist/additional-methods.js:1092 • Detected on Feb 4, 2021 by CodeQL				
<input type="checkbox"/>	main	Unsafe expansion of self-closing HTML tag	Medium	
dotnet-core-webapp/.../dist/jquery.js:5796 • Detected on Nov 12, 2020 by CodeQL				
<input type="checkbox"/>	main	DOM text reinterpreted as HTML	Medium	
dotnet-core-webapp/.../js/bootstrap.bundle.js:1076 • Detected on Nov 12, 2020 by CodeQL				
<input type="checkbox"/>	main	DOM text reinterpreted as HTML	Medium	
dotnet-core-webapp/.../js/bootstrap.js:1077 • Detected on Nov 12, 2020 by CodeQL				

Security features – overview

Commit signing

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CodeQL

Protect your code with GitHub security features

NDC { Security }

Rob Bos

DevOps Consultant – Xpirit

The Netherlands

<https://devopsjournal.io>

@robbos81



<https://myoctocat.com>